18. The system of claim **17**, wherein the capturing element is implemented by the LSM and the classifying is implemented by the MLPN.

19. The system of claim **13**, wherein the electronic sensor is at least one of an electrocardiograph and an electroencephalograph and the reconfigurable event driven hardware is configured to continuously monitor slow wave activity of a brain.

20. The system of claim **13**, wherein the reconfigurable event driven hardware and one of the electronic sensor and the processor are provided in a first enclosure, and wherein one of the electronic sensor and the processor not provided in the first enclosure is provided in a second enclosure separate from the first enclosure.

* * * * *